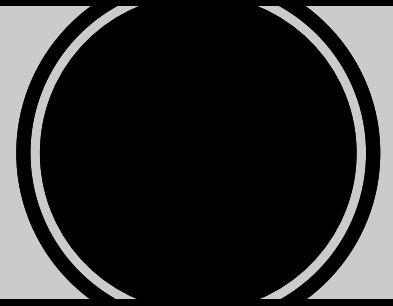


PHILIP MAUS

MSc Bionics Engineering



EDUCATION

SCUOLA SUPERIORE SANT'ANNA & THE UNIVERSITY OF PISA

M. Sc. in Bionics Engineering | Sep. 2017 - Oct. 2020 | Grade: 110/110 cum laude

Combining robotics and bioengineering technologies with life sciences, to invent biomimetic machines, human-centred healthcare and assistive technologies. The programme prepares to drive bionic research and perform interdisciplinary work.

Master's Thesis: "Study, development, and experimentation of machine learning techniques in grasping task using tactile force sensors in 3-finger-gripper", Oct. 2020, executed in the Assistive Robotics Laboratory of the Biorobotics Institute Pontedera.

UNIVERSITY OF APPLIED SCIENCES KARLSRUHE

B. Eng. in Electrical Engineering - Sensorics | Sep. 2012 - Mar. 2017 | 1.2 with distinction

Studies include sensor principles and installation, optical and electrical data transfer, signal processing, layout design and measurement technique as well as programming.

Bachelor's Thesis: "Phase and amplitude stability of a pulsed RF signal on the example of the CLIC drive beam LINAC.", March 2017, published via CERN document server.

EXPERIENCE

SCUOLA SUPERIORE SANT'ANNA

Research Fellow in Assistive Robotics Laboratory | Nov. 2020 - Dec. 2020

Study and implementation of a machine learning algorithm for object classification using tactile sensors, conducted at the BioRobotics Institute Pontedera.

Pending Publication: "Tactile-based Object Classification on Time-Series data augmentation using Deep Learning Approaches", submitted to Information Sciences.

Technical student in RF Engineering | Mar. 2016 - Feb. 2017

Design and setup of an L-band Klystron modulation signal for the drive beam of CLIC, hardware and software setup, automation of the measurements, calibration and characterization of devices with focus on precise gain and phase measurements.

Working student | Sep. 2015 - Mar. 2016

Installation of TMR angle sensor in the frame of R&D of front windshield wipers, including test bench and measurement setup, and calibration process automation.

Intern in project DESI | Aug. 2014 - Feb. 2015

Hardware and firmware adaptation of a CCD readout system for high resolution X-ray spectroscopy, with focus on grounding, filtering, and charge transfer efficiency.

EXTRACURRICULAR ACTIVITIES

WHAT DRIVES ME

PERSONAL INFORMATION

LANGUAGES

GERMAN

Mother tongue

ENGLISH

IELTS band 8.0, 03.12.2016

ITALIAN

B1, CLI University of Pisa, 03.2019

FRENCH

A2, French General & Professional

COMPUTER SKILLS

PROGRAMMING

Python, Embedded C

SOFTWARE

Tensorflow, ROS, MATLAB, LabVIEW

ADDITIONAL

MS Office, LaTeX

CONTACT

